

Hello

**Andre Molnar**

# Useless Info



**Molinum, Molina**

**Mill**



**Miller**

Told You

# Useless Info



# Upgrading Your Drupal Site

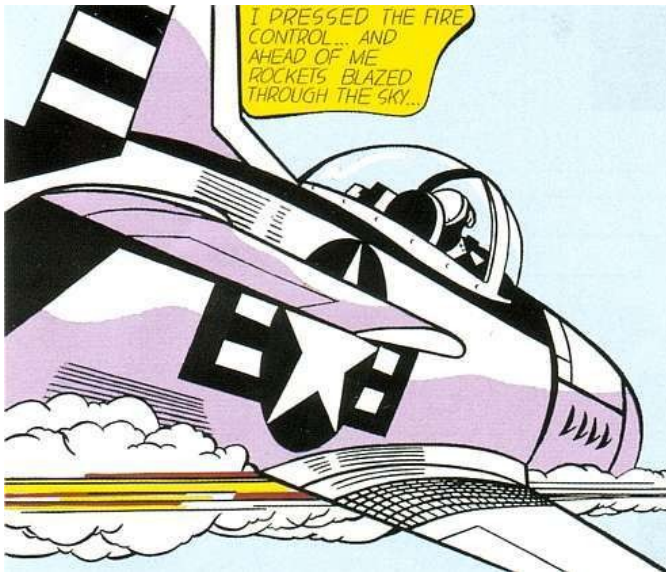
# Useless Info







# Computer Studies Cultural Studies



1994



THE FILES

# Kowabunga!!!

Do you love surfing the web? AWESOME! Me too.



[E-mail me!](#)

Best viewed in Netscape Navigator

**Computers are Boring:  
People's Interest Misplaced**

Computers *are* Boring



+



= interesting

2000

2004



**Be Circle**



# Useless Info



# Video Card



**Store Important Assets in the  
Cloud**





**Be Circle**





<http://becircle.com>



Be Circle: Freelance Drupal expertise. Playing full contact Drupal in Toronto.

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[Advice for Clients](#)

[Discover Drupal](#)

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## Web Technology is Dead: Long Live Web Technology.

I almost exclusively blog about Drupal here, but I decided to write about something different for once.

Its been 15 years since I built my first 'web page' and when you've been with anything for 15 years (in this case web technology) you wonder if its time for something new. I think the new thing I'm interested in is web technology. Really that's a long way of saying web tech is dead, long live web tech.

So what are the things that got me excited about the web again recently?

### CouchDB

Having worked with database driven web applications for nearly a decade I've had to address scalability issues on occasion. If some part of your web application technology stack becomes a bottleneck you have to scale up or out. When its the database that's the problem you often scale by adding another database server and balance the load between them. But, in order to do that you



**November 13th 2009 3AM**  
By: [andre](#)



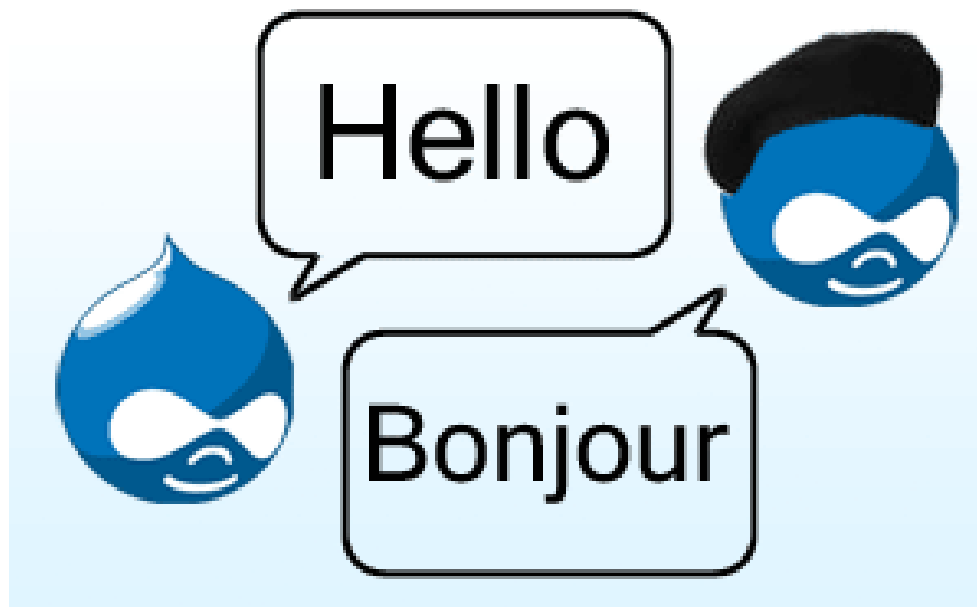
**File Under:** [Canvas](#)  
[CouchDB](#) [HTML5](#) [Web Workers](#)



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</Useless Info>

<Upgrading Your Drupal Site>



90  
%

# Upgrade vs Update

Update 6.1 to 6.2

Update 6.1 to 6.2  
(point release)

Updates = Easy

Upgrades = Hard

Upgrades = Hard  
(kind of)

# Upgrading Drupal 5 to Drupal 6

# Upgrading Drupal 6 to Drupal 7

**4 Steps**

1) Plan

- 1) Plan
- 2) Prepare your site for Upgrade

- 1) Plan
- 2) Prepare your site for Upgrade
- 3) Run your Upgrade

- 1) Plan
- 2) Prepare your site for Upgrade
- 3) Run your Upgrade
- 4) Test

# Plan

Read UPGRADE.txt

# Plan

**Do NOT Start Following the  
Instructions**

Plan

UPGRADE.txt Steps 1-10

Fine

# Plan

Line 79 of UPGRADE.txt

**11. Ensure that the versions of all custom and contributed modules match the new Drupal version to which you have updated. For a major update, such as from 5.x to 6.x, modules from previous versions will not be compatible and updated versions will be required.**

# Plan

## Rut Roh



# Plan

Planning: Create a Module  
Inventory  
(What modules are running on  
your site?)

# Plan

You could look at your modules  
folder

# Plan

~~You could look at your modules  
folder~~

# Plan

## Update Status Module

# Plan

Last checked: 17 hours 2 min ago ([Check manually](#))

## Drupal core

### [Drupal 6.14](#)

Up to date ✓

Includes: *Aggregator, Block, Blog, Book, Color, Comment, Database logging, Filter, Garland, Help, Menu, Node, PHP filter, Path, Search, System, Taxonomy, Trigger, Update status, Upload, User*

## Modules

### [Calendar 6.x-2.2](#)

Up to date ✓

Includes: *Calendar, Calendar Popup, Calendar iCal*

### [Content Construction Kit \(CCK\) 6.x-2.5](#)

Update available ⚠

**Recommended version:** [6.x-2.6](#) (2009-Nov-05)

[Download](#) [Release notes](#)

Also available: [6.x-3.x-dev](#) (2009-Nov-07)

[Download](#) [Release notes](#)

Includes: *Content, Content Copy, Fieldgroup, Node Reference, Number, Option Widgets, Text*

### [Content Profile 6.x-1.0-beta3](#)

Update available ⚠

**Recommended version:** [6.x-1.0-beta4](#) (2009-Jun-15)

[Download](#) [Release notes](#)

Includes: *Content Profile*

# Plan

Last checked: 17 hours 2 min ago (Check for updates)

Drupal core

**Drupal 6.14** Up to date ✓  
Includes: *Aggregator, Block, Blog, Book, CCK, Content Profile, Content Views, Filter, Path, Search, System, Taxonomy, Text, User*

Modules

**Calendar 6.x-2.2** Up to date ✓  
Includes: *Calendar, Calendar Popup, Calendar iCalendar*

**Content Construction Kit (CCK) 6.x-2.5** Update available ⚠  
**Recommended version:** [6.x-2.6](#) (2009-Nov-09) [Download](#) [Release notes](#)  
Also available: [6.x-3.x-dev](#) (2009-Nov-07) [Download](#) [Release notes](#)  
Includes: *Content, Content Copy, Fieldgroup, Fieldgroup Widgets, Text*

**Content Profile 6.x-1.0-beta3** Update available ⚠  
Recommended version: [6.x-1.0-beta4](#) [Download](#) [Release notes](#)  
Includes: *Content Profile*

Version you're running  
Recommended version  
Link to the Project Page

Direct Download

# Plan

Write down all the modules your  
site uses.

(Paper, Notepad, Task Manager,  
MindMap etc.)

Whatever works for you

# Plan

Module Inventory Not Done Yet

# Plan

Administer » Site Building »  
Modules (admin/build/modules)

# Plan

Write Down All Enabled 'sub  
modules' (e.g. Views UI, Image  
API GD2)

# Plan

## You're Making a Checklist

# Plan

## Module Upgrade Path

# Plan

Module Upgrade Path  
(are you even using the module?)

# Plan

## Module Upgrade Path

(are you even using the module?)

No? Disable it.

# Plan

Module Upgrade Path

(are you even using the module?)

No? Disable it.

Purge your open buffet binge

# Plan

Module Upgrade Path  
(is there one?)

# Plan

## Upgrade Status Module

[http://drupal.org/project/upgrade\\_status](http://drupal.org/project/upgrade_status)

# Plan

## Upgrade Status

[View](#)

[CVS instructions](#)

sun - May 31, 2008 - 04:41

Upgrade Status module was designed to provide an easy way tell when your website is ready to be upgraded to the next Drupal version. The module will compile a list of your projects along with a status, which can be one of the following:

- **Available:** A stable release of this project is available.
- **In development:** A development release of this project is available, which can be installed for testing purposes.
- **Not ported yet:** There are no releases available for this project.

Clicking on any of the modules' boxes will expand the area and show you a link to download the new version of the project, as well as read its release notes.

Thanks to webchick for this help text. :)

WANTED: First draft of additional sub-module Upgrade Assist now in CVS! Anyone who wants to help improving Drupal upgrades is welcome to join! (Might also lead to upgrade.php in core in the long run)

### Dependencies

- [Update Status](#)

[Administration](#) · [Modules](#) · [Developer](#) · [Utility](#)

Last checked: 0 sec ago (Check manually)

<b>Drupal</b> 5.8-dev (2008-Mar-17)	Available ✓
<b>Content Construction Kit (CCK)</b> 5.x-1.6-1	In development ⚠
Recommended version: 5.x-1.0-alpha (2008-Apr-25)	<a href="#">Download</a> · <a href="#">Release notes</a>
Includes: Content, Node Reference, Number, Option Widgets, Text	
<b>comment_upload</b> 5.x-1.x-dev (2008-Mar-17)	Not ported yet ❌
<b>CVS deploy</b> 5.x-1.1	Available ✓
<b>dataminerapi</b> 5.x-1.x-dev (2008-Mar-29)	Not ported yet ❌
<b>docs</b> 5.x-1.x-dev (2008-May-26)	Not ported yet ❌
<b>Drush</b> HEAD (2008-Mar-22)	In development ⚠
<b>Filebrowser</b> 5.x-1.x-dev (2008-May-26)	Available ✓
<b>jquery_interface</b> 5.x-1.x-dev (2008-May-05)	Not ported yet ❌

# Plan

Go to the project page of each of your installed modules (via update status)

# Plan

New Dependencies?  
(e.g. token)

# Plan

New Dependencies?  
Write them down

# Plan

New Dependencies?  
Write them down

# Plan

## Document your plan

# Plan

Document your plan  
Module Upgrade Instructions

# Plan

Document your plan  
Module Upgrade Instructions  
Order of Execution

# Plan

Document your plan  
Module Upgrade Instructions  
Order of Execution  
Steps from UPGRADE.txt

# Plan

Document your plan

Module Upgrade Instructions

Order of Execution

Steps from UPGRADE.txt

Other (we'll see in a moment)

Update Your Current Site

Update Your Current Site

# Upgrade Your Current Site

**BACK UP FIRST**

# Update Your Current Site

Backup Database

# Update Your Current Site

## Backup Database

```
$> mysqldump -u user -p dbname >  
    backupfile.sql
```

# Update Your Current Site

Backup  
PHPMyAdmin

The screenshot shows the PHPMyAdmin interface for exporting a database. The 'Export' menu item in the top navigation bar is circled in red. Below it, the 'View dump (schema) of database' section contains a table list on the left, also circled in red, with 'access' selected. The 'Options' section on the right is divided into 'Structure' and 'Data' sub-sections. The 'SQL' radio button is circled in red. At the bottom, the 'Save as file' section is circled in red, showing a file name template of '\_\_DB\_\_' and a compression option set to 'None'.

Structure SQL Search Query **Export** Import Operations Privileges Drop

View dump (schema) of database

Export

Select All / Unselect All

- access
- accesslog
- authmap
- blocks
- blocks\_roles
- book

CSV

CSV for MS Excel

Microsoft Excel 2000

Microsoft Word 2000

LaTeX

Open Document Spreadsheet

Open Document Text

PDF

SQL

XML

YAML

Options

Add custom comment into header (\\n splits lines)

Enclose export in a transaction

Disable foreign key checks

SQL compatibility mode: NONE

Structure

Add DROP TABLE / VIEW / PROCEDURE / FUNCTION

Add IF NOT EXISTS

Add AUTO\_INCREMENT value

Enclose table and field names with backquotes

Add CREATE PROCEDURE / FUNCTION

Add into comments

Creation/Update/Check dates

Data

Complete inserts

Extended inserts

Maximal length of created query: 50000

Use delayed inserts

Use ignore inserts

Use hexadecimal for BLOB

Export type: INSERT

Save as file

File name template (1): \_\_DB\_\_ (  remember template )

Compression:  None  "zipped"  "gzipped"

# Update Your Current Site

Backup Database  
Expert: Binary Copy

# Update Your Current Site

Backup Files

# Update Your Current Site

**Backup Files  
All of them!**

# Update Your Current Site

Backup Files

All of them!

(you don't have /sites/default/files in  
SVN/Git do you?)

# Update Your Current Site

## Backup Files

All of them! (not just /sites/\*)

# Update Your Current Site

## Backup Files

?> `copy -R source destination`  
(where drupal is installed  
where you want your backup e.g.  
`/home/user/site_backup`)

# Update Your Current Site

Update Drupal to the latest Stable  
Release (5.20 or 6.14)

as of November 19<sup>th</sup> 2009

# Update Your Current Site

Replace Core Files

# Update Your Current Site

Replace Core Files  
`svn_load_dirs.pl`

# Update Your Current Site

Replace Core Files  
svn\_load\_dirs.pl  
Manually

# Update Your Current Site

Replace Core Files  
read UPDATE.txt

# Update Your Current Site

Run `update.php`

Update Your Current Site

Update Your Current Modules

# Update Your Current Site

Last checked: 17 hours 2 min ago (Check)

Drupal core

**Drupal 6.14** Up to date ✓  
Includes: *Aggregator, Block, Blog, Book, C*  
*filter, Path, Search, System, Taxonomy, T* Menu, Node, PHP

Modules

**Calendar 6.x-2.2** Up to date ✓  
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Includes: *Content, Content Copy, Fieldgro* *idgets, Text*

**Content Profile 6.x-1.0-beta3** Update available ⚠  
Recommended version: [6.x-1.0-beta4](#) [Download](#) [Release notes](#)

Includes: *Content Profile*

Version you're running  
Recommended version  
Link to the Project Page

Direct Download

# Update Your Current Site

Update Your Current Modules

Read the release notes

Read update instructions

# Update Your Current Site

Update Your Current Modules  
Very much like Updating Core

# Update Your Current Site

How do you know your done?  
Update Status



# Update Your Current Site

## Document your experience

# Upgrade Your Site

You've got a plan

# Upgrade Your Site

A couple of more things before you  
start.

# Upgrade Your Site



**Every time you hack core  
God kills a kitten**

Please, think of the kittens!

# Upgrade Your Site

If you've hacked core **YOU ARE ON  
YOUR OWN.**  
(but you knew that already)

# Upgrade Your Site

Custom Modules  
Custom Themes

# Upgrade Your Site

<http://drupal.org/update/modules>  
(module developer's guide)

## Updating your modules

---

[Developers and coders](#) · [Drupal 4.5.x or older](#) · [Drupal 4.6.x](#) · [Drupal 4.7.x](#) · [Drupal 5.x](#) · [Drupal 6.x](#) · [Drupal 7.x](#) · [No known problems](#)  
Last modified: June 20, 2009 - 20:23

As Drupal develops with each release it becomes necessary to update modules to take advantage of new features and stay functional with Drupal's API.

Please note that from Drupal 5.x on, the [Code Review](#) module has a mode that attempts to automate the process of checking modules for things that need to be updated between versions. While not perfect, it can greatly assist the process of updating modules.

Lullabot features a useful [video tutorial on how to upgrade your Drupal module to a new version](#).

---

- ▶ [Converting 6.x modules to 7.x](#)
- [Converting 6.0, 6.1 modules to 6.2](#)
- ▶ [Converting 5.x modules to 6.x](#)
- ▶ [Converting 4.7.x modules to 5.x](#)
- [ARCHIVE: Converting 4.7.x modules to 4.7.5](#)
- [ARCHIVE: Converting 4.7.x modules to 4.7.4](#)
- [Converting legacy \(4.5.4/4.6.2 and below\) XML-RPC library to new implementation](#)
- ▶ [Converting 4.4.x modules to 4.5.x](#)
- ▶ [Converting 4.3.x modules to 4.4.x](#)
- ▶ [Converting 4.2.x modules to 4.3.x](#)
- [Converting 4.1.x modules to 4.2.x](#)
- ▶ [Converting 4.0.x modules to 4.1.x](#)
- [Converting 3.0.x modules to 4.0.x](#)

# Upgrade Your Site

<http://drupal.org/update/theme>  
(theming guide)

## Converting a theme to a later Drupal version

[Reference](#) · [Lead in page for converting older Drupal theme to newer Drupal theme](#) · [Themers](#) · [Drupal 4.7.x](#) · [Drupal 5.x](#) · [Drupal 6.x](#) · [Drupal 7.x](#) · [No known problems](#)

Last modified: August 25, 2009 - 03:43

If you upgrade a site from one version of Drupal to another, you must take specific steps to make your theme compatible with the new version.

Always test the modifications on a separate development server before moving to a production site.

- 
- [Converting 6.x themes to 7.x](#)
  - [Converting 5.x themes to 6.x](#)
  - [Converting 4.7.x themes to 5.x](#)

# Upgrade Your Site

Custom Modules

Custom Themes

Your responsibility **BEFORE** you  
upgrade.

# Upgrade Your Site

Download everything you need (Core,  
Contributed Modules)

# Upgrade Your Site

**BACKUP YOUR SITE**

# Upgrade Your Site

If possible practice **RESTORING** from a backup before you start

# Upgrade Your Site

If possible do a test run

# Upgrade Your Site



# Upgrade Your Site

**UPGRADE.txt**

# Upgrade Your Site

**BACKUP YOUR SITE**  
(never hurts to say it again)

# Upgrade Your Site

Log in as user 1

# Upgrade Your Site

Put your site into maintenance mode  
([admin/setting/site-maintenance](#))

# Upgrade Your Site

Switch to a core theme (e.g. Garland)

# Upgrade Your Site

Disable ALL Custom and Contributed  
Modules

# Upgrade Your Site

Disable ALL Custom and Contributed  
Modules

(Can't do it all at once: Dependencies)

# Upgrade Your Site

Remove Core Files and Directories  
(e.g. /modules, /includes, /misc,  
index.php, )

# Upgrade Your Site



Warning: Your Site is Currently TOAST  
Hurry!

# Upgrade Your Site

Unpack the New Files and Directories  
into the Drupal Installation Directory

# Upgrade Your Site

Copy Back Your Backed Up /sites  
Directory

# Upgrade Your Site

Copy Back Your Backed Up /sites  
Directory

# Upgrade Your Site

Run `update.php`  
(<http://example.com/update.php>)

# Upgrade Your Site

## Remember Step 11?

# Upgrade Your Site

Line 79 of UPGRADE.txt

**11. Ensure that the versions of all custom and contributed modules match the new Drupal version to which you have updated. For a major update, such as from 5.x to 6.x, modules from previous versions will not be compatible and updated versions will be required.**

# Upgrade Your Site

Aren't you glad you planned ahead?

# Upgrade Your Site

Restore your site's original theme (or a new one if you want)

# Upgrade Your Site

Step 14: Return your site to 'online'

# Upgrade Your Site

**WAIT!**

Testing Your Upgraded Site

Testing Your Upgraded Site

# Testing Your Upgraded Site

Errors? WSOD?

# Testing Your Upgraded Site

Permissions

# Testing Your Upgraded Site

Is content showing up? (correctly?)

# Testing Your Upgraded Site

Its Your Site. You know what you need  
to check!

# Testing Your Upgraded Site

But this was just a test run (right?)

# Testing Your Upgraded Site

Step 14: Return your site to 'online'



# Alternate Method

Rebuild your site from scratch

**I'm Serious**

I'm Serious  
(kind of)

# Upgrade Drupal 6 to Drupal 7



THERE IS CURRENTLY NO  
UPGRADE PATH\*

THERE IS CURRENTLY NO  
UPGRADE PATH\*

\*  
for a real world site with CCK

THERE IS CURRENTLY NO  
UPGRADE PATH\*  
(I wish I was kidding)

\*

for a real world site with CCK

# Fields In Core (Field API)

<http://drupal.org/node/366364>  
Upgrade path for D6 CCK fields

*“I think anyone who thinks this upgrade path shouldn't be part of core itself is smoking a particularly string variation of crack.”*

*Angie Byron (aka WebChick)*

Other Modules in Core  
(or out of core)

Token IN  
Blog API OUT  
poorman's cron IN  
Cacherouter IN(ish)  
Others

Upgrade Path Documentation  
Simply Doesn't Exist YET

<http://drupal.org/node/615634>

Update CHANGELOG.txt to  
explicitly name new core  
modules and core modules that  
have been removed

<http://drupal.org/node/536854>

Review and test the upgrade  
guide for Drupal 7

# Document Upgrade Paths for Modules That Have Moved to Core

Questions?

**Thank You!**

Drush